



## Casing

Well Name: Critter Creek 16-6005BE

Production

Well Name Critter Creek 16-6005BE	API 05-123-47306-00	Excalibur ID 20219	Operator HighPoint Resources	Current Well Status PRODUCING	Government Authority State of Colorado
Well Configuration Type Horizontal	Original KB Elevation (ft) 5,273.00	Ground Elevation (ft) 5,253.00	KB-Ground Distance (ft) 20.00	Regulatory Drilling Spud Date 8/20/2018 10:00	Regulatory Rig Release Date 12/27/2018 01:30
Surface Legal Location SESE Sec 16 T11N R63W	North/South Distance (ft) 430.0	North/South Reference FSL	East/West Distance (ft) 1,064.0	East/West Reference FEL	Lat/Long Datum NAD 83
Latitude (°) 40° 54' 58.637" N	Longitude (°) 104° 25' 56.33" W	Basin DJ Basin	Field Name Hereford	County Weld	State/Province Colorado

### Kick Offs & Key Depths

Wellbore Name					Top Depth (ftKB)
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Surface	13 1/2	20.0	1,547.0	8/20/2018 10:00	8/21/2018 03:00
Intermediate	8 3/4	1,547.0	8,010.0	12/14/2018 09:00	12/16/2018 01:30
Lateral	6 1/8	8,010.0	17,981.0	12/18/2018 05:00	12/21/2018 21:00

### Wellhead

Type	Start Date	Service	Comment
------	------------	---------	---------

### Wellhead Components

Des	Make	Model	SN	WP Top (psi)

### Casing

Casing Description Production	Set Depth (ftKB) 17,975.0	Run Date 12/26/2018 16:00	Set Tension (kips)
Centralizers		Scratchers	

### Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top Thread	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)
Casing Joints	4 1/2	3.92	13.50	P-110	6,933.41	141	BPN	20.0	6,953.4	
Cross Over	4 1/2	3.92	13.50	P-110	43.92	1	BPN	6,953.4	6,997.3	
Pup Joint	4 1/2	3.63	13.50	P-110	10.05	1	BPN	6,997.3	7,007.4	
Casing Joints	4 1/2	4.00	11.60	P-110	1,082.85	24	LTC	7,007.4	8,090.2	
Pup Joint	4 1/2	4.00	11.60	P-110	5.04	1	LTC	8,090.2	8,095.3	
NCS AIRLOCK SUB	4 1/2	4.00			1.75	1	LTC	8,095.3	8,097.0	
Pup Joint	4 1/2	4.00	11.60	P-110	5.07	1	LTC	8,097.0	8,102.1	
Casing Joints	4 1/2	4.00	11.60	P-110	9,810.43	226	LTC	8,102.1	17,912.5	
Pup Joint	4 1/2	4.00	11.60	P-110	4.98	1	LTC	17,912.5	17,917.5	
WET SHOE SUB	4 1/2	4.00			5.01	1	LTC	17,917.5	17,922.5	
Pup Joint	4 1/2	4.00	11.60	P-110	5.05	1	LTC	17,922.5	17,927.6	
LTC DOUBLE VALVE FLOAT COLLAR	4 1/2	4.00			1.55	1	BPN	17,927.6	17,929.1	
Casing Joint	4 1/2	4.00	11.60	P-110	43.81	1	LTC	17,929.1	17,972.9	
LTC SINGLE VALVE FLOAT SHOE	4 1/2	4.00			2.08	1	BPN	17,972.9	17,975.0	



# Cement

Well Name: Critter Creek 16-6005BE

Production Casing Cement

Well Name Critter Creek 16-6005BE	API 05-123-47306-00	Excalibur ID 20219	Operator HighPoint Resources	Current Well Status PRODUCING	Government Authority State of Colorado
Well Configuration Type Horizontal	Original KB Elevation (ft) 5,273.00	Ground Elevation (ft) 5,253.00	KB-Ground Distance (ft) 20.00	Regulatory Drilling Spud Date 8/20/2018 10:00	Regulatory Rig Release Date 12/27/2018 01:30
Surface Legal Location SESE Sec 16 T11N R63W	North/South Distance (ft) 430.0	North/South Reference FSL	East/West Distance (ft) 1,064.0	East/West Reference FEL	Lat/Long Datum NAD 83
Latitude (°) 40° 54' 58.637" N	Longitude (°) 104° 25' 56.33" W	Basin DJ Basin	Field Name Hereford	County Weld	State/Province Colorado

## Cement Details

Description Production Casing Cement	String Production, 17,975.0ftKB	Type Casing	Cementing Start Date 12/26/2018 21:00	Cementing End Date 12/26/2018 23:00	Cementing Company Halliburton Energy Services
Job Category D & C	Wellbore Original Hole	Evaluation Method Returns to Surface	Cement Evaluation Results CALCULATED	Technical Result	Cementing Supervisor NICHOLAS PETERSON

Comment

## Cement Stages

Stage # 1								
Stage Number 1	Description Production Casing Cement	Objective	Top Depth (ftKB) 7,500.0	Bottom Depth (ftKB) 17,975.0	Full Return? No	Vol Cement Ret (bbl) 0.0	Top Plug? Yes	Bottom Plug? No
Q Pump Init (bbl/min) 5	Q Pump Final (bbl/min) 3	Q Pump Avg (bbl/min) 4	P Pump Final (psi) 600.0	P Plug Bump (psi) 1,268.0	Pipe Reciprocated? Yes	Stroke (ft)	Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (ftKB)		Tag Method	Top Measurement Method Volume Calculations			Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	

Comment

## Cement Fluids & Additives

Fluid						
Fluid Type	Fluid Description	Estimated Top (ftKB)	Est Btm (ftKB)	Amount (sacks)	Class	Volume Pumped (bbl)
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal)	Plastic Viscosity (cP)	Thickening Time (hr)	CmprStr 1 (psi)

Additives					
Add	Type	Amount	Amount Units	Conc	Conc Unit